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FEDERAL - STATE - PRIVATE COOPERATIVE
SNOW SURVEY and WATER SUPPLY FORECASTS
for
WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE
and
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above
in cooperation with the U.S. Forest Service, Bureau of Reclamation,
National Park Service, and other Federal, State and private organiza-
tions.

AS OF
MAY 1, 1958

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
COLORADO, RIO GRANDE AND PLATTE-ARKANSAS	MONTHLY (FEB.-MAY)	COLO. EXP. STATION	FT. COLLINS, COLO.
COLUMBIA <i>Includes Alaska</i>	MONTHLY (JAN.-MAY)		BOISE, IDAHO
UPPER MISSOURI	MONTHLY (FEB.-MAY)	MONT. AGR. EXP. STATION	BOZEMAN, MONTANA
WEST-WIDE	SEMI-ANNUALLY (OCT. 1 AND APR. 1)	COOPERATORS	PORTLAND, OREGON

STATES			
ARIZONA	SEMI-MONTHLY (JAN. 15-APR. 1)	SALT R. VALLEY WATER USERS ASSOCIATION	PHOENIX, ARIZONA
NEVADA	MONTHLY (FEB.-APR.)	NEVADA STATE ENGINEER	RENO, NEVADA
OREGON	MONTHLY (JAN.-MAY)	ORE. AGR. EXP. STATION	PORTLAND, OREGON
UTAH	MONTHLY (JAN.-MAY)	UTAH STATE ENGINEER UTAH AGR. EXP. STATION	SALT LAKE CITY, UTAH
WASHINGTON	MONTHLY (FEB.-MAY)	WASH. STATE DEPT. OF CONSERVATION AND DEVELOPMENT	SPOKANE, WASHINGTON
WYOMING	MONTHLY (FEB.-JUNE)	WYOMING STATE ENGINEER	CASPER, WYOMING

Copies of the various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S.W. 5th Avenue, Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

OTHER SNOW SURVEY REPORTS

BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANOS AND FORESTS, PARLIAMENT BLDGS. VICTORIA, B.C.
CALIFORNIA	MONTHLY (FEB.-MAY)	GALIFORNIA DEPARTMENT OF WATER RESOURCES, SACRAMENTO, CALIFORNIA

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER FORECASTS
FOR
WYOMING

Issued
May 1, 1958

Report Prepared
by
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Wyoming Snow Survey Supervisor
Soil Conservation Service
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P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

Earl Lloyd
State Engineer of Wyoming
Cheyenne, Wyoming

PRELIMINARY WATER SUPPLY OUTLOOK
FOR
WYOMING
May 1, 1958

SNAKE RIVER BASIN

Slightly above normal snow fall during April has not materially improved snow conditions in the Snake River basin. The expected discharge into Jackson Lake will be 90 percent of normal, with 87 percent expected into Palisades reservoir.

GREEN RIVER BASIN

Soil moisture conditions in the Green River watershed are good, however the snow pack is somewhat below normal. Close to average supplies are anticipated at Fontenelle and at the Utah border.

NORTH PLATTE BASIN

Low temperatures have slowed down the April runoff in the North Platte and Laramie River basins, however, an above normal snow pack and excellent soil moisture conditions combine to produce an expected seasonal water supply that will range from 110% in the Laramie River to 118% of normal in the North Platte.

Reservoir storage is excellent. Wheatland Reservoir is spilling and the North Platte reservoirs, Seminoe and Pathfinder are standing at 142% of normal and 64 percent of usable capacity. The most probable outlook for these two basins is considered very good, however, in the event that summer precipitation is light, heavy diversion on the Laramie may reduce the flow at Lookout considerably.

WIND RIVER BASIN

The May 1 snow surveys on the Wind River watershed indicate very little change in the forecasts of one month ago. Serious deficits may be expected in the Lander area where the snow pack is 60 - 65 percent of normal. The discharge at Dubois is expected to be 75 - 80 percent of normal.

THE BIG HORN BASIN

Recent heavy storms have improved the outlook on the Shoshone and Greybull rivers and on the northern half of the Big Horn mountains. Water supplies on these areas are expected to be a little below normal.

WYOMING STREAM-FLOW FORECASTS MAY, 1958

BASIN AND TRIBUTARY	April - September Seasonal Stream-Flow in Thousands of Acre Feet					15-Yr. Average 1938-52				
	FORECAST RUNOFF	% 15-Yr. Average		Measured Runoff 1955 1954						
		15-Yr. Average								
		1955	1954							
MADISON RIVER										
West Yellowstone (at)	177	89%	183	219	198					
YELLOWSTONE RIVER										
Corwin (at)	1723	92%	1527	2014	1870					
NORTH POPO AGIE										
Milford (near)	67	77%	57	73	87*					
LITTLE POPO AGIE										
Lander (near)	32	60%	25	39	53*					
WIND RIVER										
Dubois (at)	80	78%	66	105	102*					
SHOSHONE RIVER										
Buffalo Bill Dam (below) (3)	780	95%	534	766	823					
SHELL CREEK										
Shell (near)	70	95%	72	52	74*					
CLARKS FORK										
Chance (at)	515	88%	419	600	580					
LARAMIE RIVER										
Jelm (at) (4)	115	110%	84	46	105*					
ENCAMPMENT RIVER										
Encampment (near)	170	106%	86	72	160*					
NORTH PLATTE RIVER										
Saratoga (at)	775	118%	319	234	657					
MEDICINE BOW RIVER										
Hanna (near)	116	105%	51	17	111					
SWEETWATER RIVER										
Alcova (at)	47	65%	35	45	73					
GREEN RIVER										
Warren Bridge (at)	306	92%	253	354	333					

WYOMING STREAM-FLOW FORECASTS MAY, 1958

BASIN AND TRIBUTARY	April - September					
	FORECAST RUNOFF	Seasonal Stream-Flow in Thousands of Acre Feet			15-Yr.	
		% 15-Yr. Average	Measured 1955	Runoff 1954	Average 1938-52	
NORTH PINEY CREEK						
Mason (near)	45	122%	24	35	37	
NEW FORK CREEK						
Boulder (near)	251	101%	161	259	248	
GREEN RIVER						
Fontenelle (at)	923	100%	623	896	923	
Linwood (at) Utah	1290	99%	756	901	1300	
SNAKE RIVER						
Moran (at) (5)	770	90%	738	1010	858	
PACIFIC CREEK						
Moran (near)	134	81%	142	230	166*	
BUFFALO FORK						
Moran (near)	290	81%	315	418	356*	
GROS VENTRE						
Kelly (at)	212	81%	199	293	261*	
HOBACK						
Jackson (near)	352	91%	290	448	386*	
SNAKE RIVER						
State Line (at) (5)	2580	87%	2516	3250	2949*	
Heise (at) (5)	3650	95%	2925	4001	3834	
SALT RIVER						
State Line (at)	413	115%	231	287	360	
BEAR RIVER						
Evanston (near)	142	100%	74	55	142	
Randolph (near)	122	105%	26	15	116*	
Harer (at) Idaho	307	109%	116	100	281	
SMITHS FORK						
Border (near)	122	107%	78	89	114*	

All stream data taken from observed flow records with the following exceptions:

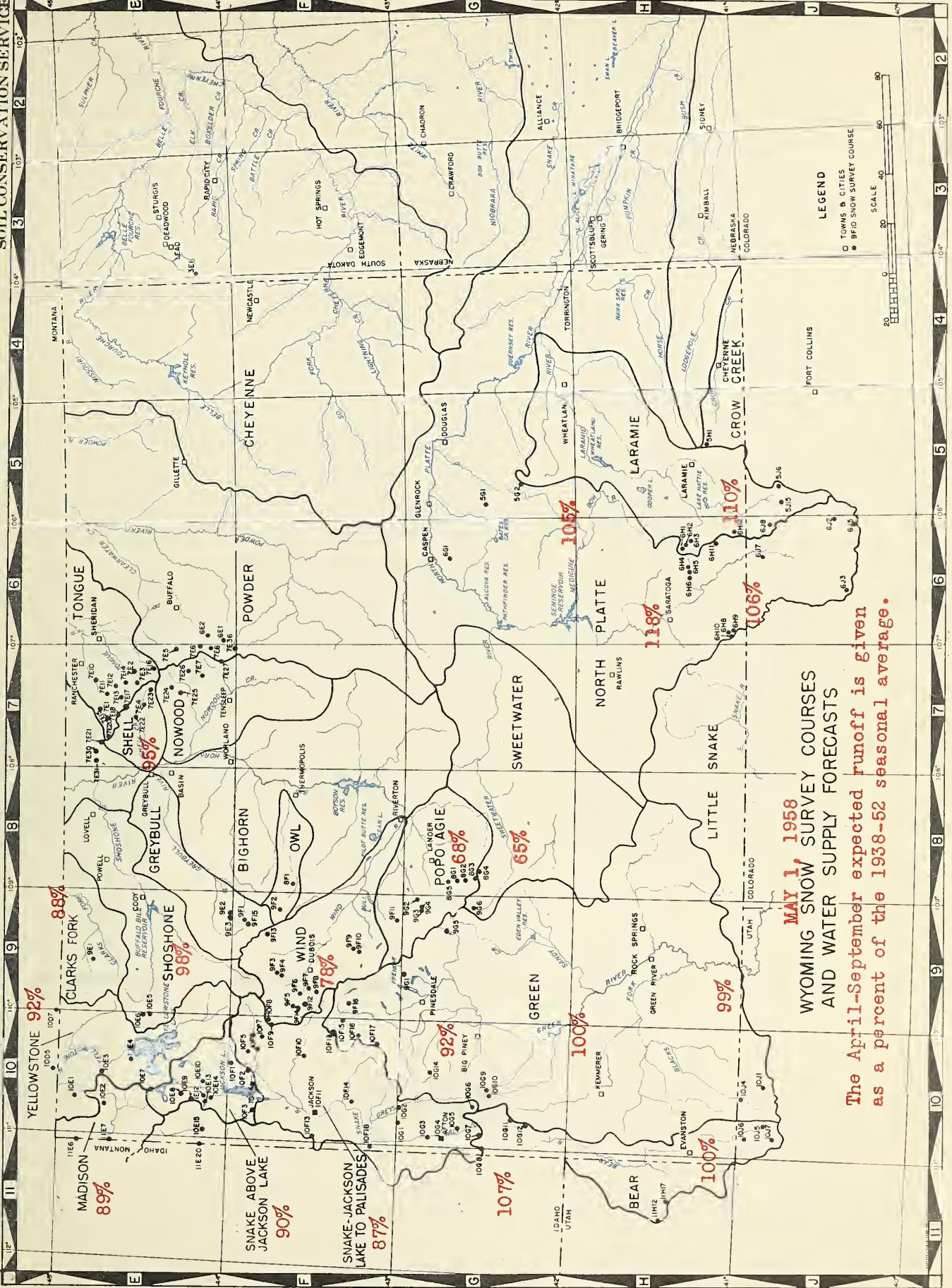
- (1) Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.
- (2) Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.
- (3) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- (4) Observed flow corrected for Colorado Diversion above station.
- (5) Observed flow corrected for Jackson Lake storage.

* Less than 15.

** Estimated 1938-52 average.

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONDUCTIVITY



INDEX TO WYOMING SNOW COURSES

MISSOURI RIVER DRAINAGE										MISSOURI RIVER DRAINAGE										
Drainage Basin and Course Name	Wyoming Number	Sec. Elev.	Lat.	Long.	Range	Record Began	Mean Date	Mesa, a	Mesa, b	Wyo.	Drainage Basin and Course Name	Wyoming Number	Sec. Elev.	Lat.	Long.	Range	Record Began	Mean Date	Wyo.	
MADISON RIVER																				
Norris Basin	10E2	7500	44°44'		110°42'	1935	3,4	2			Pole Mountain #2	6H1	8700	35	15N	72W	1936	2,3,4,5	1,4	
21 Mile	11E5	7150	1	11S	56	1936	1,2,3,4,5	6			NORTH PLATTE									
West Yellowstone	an	6700	34	13S	56	1934	1,2,3,4,5	6			Albany	6H11	9400	18	14N	78W	1949	2,3,4,5	1	
YELLOWSTONE																				
Canyon Creek	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	1			Bottle Creek	6H18	8200	24	14N	85W	1936	2,3,4,5	1,4	
Coopy Creek	10F7	7400	25	36	14S	1937	1,2,3,4,5	2			Boulder Creek	5G1	9000	31	30N	75W	1950	2,3,4,5	1	
Mountain	10E5	6400	22	36	14S	1935	3,4				Casper Mountain	6G1	8700	16	32N	75W	1954	1,2,3,4,5	1	
East Entrance	10E5	7000	17	52N	103W	1948	2,3,4,5	2			Columbine	6G3	9300	21	5N	62W	1936	2,3,4,5	1	
Hay Camp	10E4	7850	44°34'		110°24'	1937	1,2,3,4,5	1			Fox Park	6H12	9200	21	13N	78W	1956	2,3,4,5	1	
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2			LaBonte	5G2	9400	11	27N	74W	1949	2,3,4,5	1	
Thumb Divide	10E7	7900	44°22'		110°35'	1945	2,3,4	5			Mark Barrett Creek	6H4	9400	30	16N	80W	1936	2,3,4,5	1	
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2			North French Creek	6H14	10200	27	16N	80W	1956	2,3,4,5	1	
CLARK'S FORK																				
Lodgepole	9E1	8200	32	56N	109W	1940	2,3,4,5	1,4			Northgate	6H7	8500	7	11N	79W	1956	2,3,4,5	1,4	
INDIAN RIVER																				
Big Horn	9F12	8800	36	42N	109W	1955	2,3,4,5	1			Park View	6G2	9200	24	5N	78W	1956	2,3,4,5	1,4	
Brooks Lake	10F8	9200	23	44N	110W	1939	2,3,4,5	1			Ryan Park #2	6H6	8400	34	16N	81W	1956	2,3,4,5	1,4	
Burrough Creek	9F4	8800	15	43N	107W	1948	2,3,4,5	1			Webber Spring	6H9	9000	27	14N	85W	1956	2,3,4,5	1,4	
Dimmock	9F10	10000	9	36N	104W	1946	2,3,4,5	1			Willow Creek Pass	6G5	9500	1	4N	75W	1958	2,3,4,5		
Dry Creek	9F9	9000	34	48N	109W	1948	2,3,4,5	1			CHEYENNE RIVER									
Frye	9F6	8750	27	42N	109W	1940	2,3,4,5	1			Upper Spearfish	3E1	6500	21	3N	1E	1944	2,3,4	4	
East Fork	9F13	9200	23	44N	104W	1956	2,3,4,5	1			GREEN RIVER									
Teyster Creek	9F7	8500	12	41N	109W	1948	2,3,4,5	1			Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1	
Little Warr	9F8	9500	24	41N	109W	1948	2,3,4,5	1			Blind Bull	10G2	8700	6	34N	115W	1946	2,3,4,5	1	
Sheridan R.S. #1	9F5	7500	3	42N	109W	1939	2,3,4,5	1			Dutch R.R.S.	9G5	8700	32	31	104W	1956	2,3,4,5	1	
Sheridan R.S. #2	9F4	7500	3	42N	109W	1955	2,3,4,5	1			East Rim Divide	10F17	7950	32	37N	111W	1956	1,2,3,4,5	1	
T-Crosses Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1			Green River Lakes	9F16	8100	30	39	105W	1956	2,3,4,5	1	
Two-toe Pass	10F9	9500	29	44N	110W	1936	2,3,4	5			Gros Ventre	10G13	8700	40	13N	114W	1948	2,3,4,5	1	
POPO AJOE RIVER																				
Blue Ridge	8G2	3500	23	31N	101W	1939	2,3,4,5	1			Hawkins Ranch	9H4	9600	33	16N	130W	1950	4		
Bruce's Camp	8G5	6500	24	32N	101W	1955	2,3,4	1			Hawks Ranch-Rocky Mtn	9H5	9150	13	2X	135E	1931			
Hoeks Park	9G3	10000	22	35	104W	1948	2,3,4,5	1			Kelly R.S.	10G12	8200	13	25N	118W	1951	2,3,4,5	1	
Losquito Park R.S.	9G4	9500	23	35	104W	1940	2,3,4,5	1			Kendall R.S.	10F15	7900	23	38N	110W	1956	2,3,4,5	1	
Swallow Glade	8G1	6500	3	31N	103W	1939	2,3,4,5	1			Lomie's Park	10F16	8500	14	37N	111W	1953	2,3,4,5	1	
Spur Park	8G3	6000	13	30N	103W	1939	2,3,4,5	1			Mulligan Park	9G1	8900	17	35N	108W	1956	2,3,4,5	1	
St. Lawrence R.S.	9F11	9000	26	34W	94W	1940	2,3,4,5	1			Old Battle	6H10	9800	29	14N	86W	1956	2,3,4,5	1,4	
Trotter Creek	9G2	8400	5	28	26W	1948	2,3,4,5	1			Piney-Large	10G16	8820	19	29N	114W	1957	2,3,4,5	1	
OWL CREEK																				
Seavers Mill	9F2	8900	6	43N	102W	1948	2,3,4,5	1			Poison Meadows	10G8	8800	29	30N	130W	1948	2,3,4,5	1	
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1			Snyder Basin R.S. #1	10G9	8040	18	29N	114W	1957	2,3,4,5	1	
GREYBULL RIVER																				
Timber Creek #1	9E2	8800	25	47N	103W	1949	2,3,4,5	1			Snyder Basin R.S. #2	10G13	8040	16	29N	114W	1956	2,3,4,5	1	
Timber Creek #2	9E3	8800	28	47N	103W	1966	2,3,4,5	1			Soda Lake	10G14	8300	4	31N	115W	1951	2,3,4,5	1	
Wood River #1	9F1	8000	24	46N	103W	1939	2,3,4,5	1			COLLICUM RIVER BASIN (Above Jackson Lake)									
Wood River #2	9F15	8000	28	46N	103W	1955	2,3,4,5	1			Arizona	10F1	8850	3	45N	113W	1919	2,3,4	5	
SHOSHONE RIVER																				
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2			Aster Creek	10E8	7700	44°17'	103°37'	1919	2,3,4	5		
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2			Base Camp	10F2	6200	20	46N	113W	1947	2,3,4	5	
NORWOOD CREEK																				
Cold Spring Camp	7E25	8700	1	50N	89W	1956	2,3,4,5	1			Coulter Creek	10E10	7600	44°00'	110°33'	1919	2,3,4,5	2		
Mountain Lodge Lakes	7E24	9500	7	51N	87W	1956	2,3,4,5	1			Glade Creek	10E11	7200	44°00'	110°44'	1919	2,3,4,5	2		
Lunkers Power #1	7E8	9700	11	48N	85W	1950	2,3,4,5	1			Grassy Lake	10E12	7600	44°15'	110°40'	1919	2,3,4,5	5		
Timber Creek #2	7E26	5500	20	47N	89W	1956	2,3,4,5	1			Huckleberry Divide	10E14	7500	42°15'	111W	1919	2,3,4,5	5		
Timber Creek #3	7E21	5500	31	49N	89W	1956	2,3,4,5	1			Lewis Creek	10E15	7700	45°15'	111W	1919	2,3,4,5	5		
Timber Creek #4	7E20	5500	32	49N	89W	1956	2,3,4,5	1			Mountain Divide	10E16	7800	45°15'	111W	1919	2,3,4,5	5		
Timber Creek #5	7E22	5500	33	49N	89W	1956	2,3,4,5	1			Rocky Centre	10F19	7500	36	40N	111W	1948	1,2,3,4,5	1,4	
Timber Creek #6	7E23	5500	34	49N	89W	1956	2,3,4,5	1			Grover Park Divide	10E23	7500	27	33N	111W	1936	1,2,3,4,5	1,4	
Granite Creek Camp	7E18	7800	15	53N	89W	1956	2,3,4,5	1			Lomie's Park	10F15	8500	14	37N	111W	1935	2,3,4,5	1	
Granite Falls	7E17	6500	19	54N	89W	1956	2,3,4,5	1			Poison Meadows	10F16	8500	29	30N	111W	1949	2,3,4,5	1	
POURCUPINE CREEK																				
Anger Creek	7E4	8800	32	53N	89W	1935	2,3,4,5	1			Teton Pass #2	10F13	8500	24	41N	118W	1935	1,2,3,4,5	1,4	
Shell Creek	7E23	9600	12	52N	87W	1956	2,3,4,5	1			Togetown Pass	10F9	9600	29	44N	110W	1935	2,3,4,5	5	
FORCUPINE CREEK																				
Five Springs Falls	7E31	7500	19	56N	92W	1956	2,3,4,5	1			Upjohn Meadow	10F5	6930	14	45N	112W	1935	2,3,4,5	1	
Medicine Wheel	7E30	9000	24	56N	92W	1956	2,3,4,5	1			Yellow Jack	10F10	7675	33	42N	111W	1948	2,3,4,5	4	
TOUGOU RIVER																				
Bearer Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1			Salt River Summit	10F11	7600	4	40N	117W	1949	2,3,4,5	1	
Big Goose #1	7E2	7700	4	55N	89W	1935	2,3,4,5	1			Snow King Mountain #1	10F12	7600	32	29N	118W	1944	2,3,4,5	1	
Big Goose #2	7E3	7700	4	55N	89W	1935	2,3,4,5	1			Snow King Mountain #2	10F13	7600	32	29N	118W	1944	2,3,4,5	1	
Big Goose Divide	7E10	9200	32	55N	89W	1956	2,3,4,5	1			SEASIDE RIVER									

Numeral 1, 2, 3, 4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1. Numerals refer to Agency that acquires the snow survey, as follows:

- 2. U. S. National Park Service.
- 3. U. S. Indian Service.
- 4. U. S. Forest Service.
- 5. U. S. Bureau of Reclamation.

- 5. U. S. Bureau of Reclamation.
- 6. U. S. Geological Service.

North Powder fl destroyed.
Sheridan Creek partially destroyed.
Montana snow courses.

South Dakota snow courses.
Utah snow courses. 57M-123-2(3)

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WYOMING SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS							
			1958			PAST RECORD				
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1957	1956	Average	Prior Yrs. Reco-

MADISON RIVER - YELLOWSTONE PARK

Norris Basin	10E2	7500	5/1	22	7.7	8.1	5.7	6.0**	6
21 Mile ^m	11E6	7150	4/28	46	14.4	21.5	17.7	11.2	24
West Yellowstone ^m	11E7	6700	4/28	16	5.0	10.8	5.7	3.5	24

UPPER YELLOWSTONE - YELLOWSTONE PARK

Canyon	10E3	7500	5/1	40	14.3	17.3	17.4	12.1**	13
Cooke City ^m	10D7	7400	4/30	22	7.8	8.2	6.8	5.5**	13
East Entrance \div	10E6	7000	4/29	21	7.8	10.2	2.2		4
Lake Camp	10E4	7850	4/30	31	9.4	9.3	15.2	8.5**	11
Lupine Creek	10E1	7300	4/30	22	7.2	8.9	9.4	9.1**	7
Sylvan Pass \div	10E5	7100	4/29	37	12.6	15.1	13.0	8.8*	16

LOWER YELLOWSTONE - CLARK'S FORK

Lodgepole	9E1	8200	5/1	34	9.2	12.6	16.0	9.5*	18
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LOWER YELLOWSTONE - WIND RIVER

Big Warm	9F12	8800	4/25	21	4.7	11.8	13.3		3
Brooks Lake	10F8	9200	4/24	69	23.2	28.1	37.1	26.5*	21
Burroughs Creek	9F4	8800	4/26	41	10.8	15.7	23.5	16.4**	9
Dinwoodie	9F10	10000	4/27	46	10.8	16.4	21.8	15.9**	9
Dry Creek	9F9	9500	4/27	28	5.9	10.4	11.2	8.6**	9
Dunoir	9F6	8750	4/25	21	5.2	10.7	14.0	7.4*	16
Geyser Creek	9F7	8500	4/25	16	4.1	10.2	11.4	6.8**	9
Little Warm	9F8	9500	4/25	57	16.6	23.9	28.7	21.5**	9
Sheridan R.S. #2	9F14	7500	4/24	14	2.7	8.0	9.7		3
T-Cross Ranch	9F3	8000	4/26	10	1.9	7.4	9.0	4.6**	15
Togwotee Pass	10F9	9600	5/1	73	29.4	32.7	47.4	34.8**	9

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** Average is for all past data.

^m Montana snow courses.

\div Not located directly on this drainage.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS								
			1958			PAST RECORD					
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)			Prio Yrs. Reco		
						1957	1956	Average			

LOWER YELLOWSTONE - POPO AGIE RIVER

Blue Ridge	8G2	9500	5/1	44	12.2	15.3	15.6	12.5*	18
Bruce's Camp	8G5	6500		Late Report		NR	0.0		2
Hobbs Park	9G3	10000	4/29	65	16.4	22.7	27.3	23.1**	9
Mosquito Park R.S.	9G4	9500	4/29	38	9.0	13.9	9.7	8.2**	13
Sawmill Glade	5G1	8500	5/1	32	9.4	11.6	4.3	6.8*	18
South Pass	8G3	9000	5/1	40	11.4	19.0	19.1	14.6*	18
St. Lawrence R.S.	9F11	9000	4/28	26	5.6	11.4	9.4	7.8**	14
Trout Creek	9G2	8400	4/29	24	6.1	10.4	0.0	2.9**	9

LOWER YELLOWSTONE - OWL CREEK

Beavers Mill	9F2	8900		No Report		9.4	NR	8.3	7
Owl Creek	8F1	8700	4/30	34	9.0	8.2	6.8	7.6**	8

LOWER YELLOWSTONE - GREYBULL RIVER

Timber Creek #2	9E3	8800	4/24	30	6.8	9.0	3.0		3
Wood River #2	9F15	8000	4/25	28	7.0	12.4	3.5		3

LOWER YELLOWSTONE - SHOSHONE RIVER

Carter Mountain	9E3		4/29	34	9.6	12.7			1
Brooks Lake	10F8	9200	4/24	69	23.2	28.1	37.1	26.5*	21
East Entrance	10E6	7000	4/29	21	7.8	10.2	2.2		4
Sylvan Pass	10E5	7100	4/29	37	12.6	15.1	13.0	8.8*	16
Togwotee Pass	10F9	9600	5/1	73	29.4	32.7	47.4	34.8**	9

LOWER YELLOWSTONE - NOWOOD CREEK

Cold Springs Camp	7E25	8700	4/26	26	7.2	6.1	6.6		2
Medicine Lodge Lake	7E24	9500	4/26	45	11.8		10.8		1
Munkres Pass ^d	7E8	9700	5/2	42	12.2	11.4	12.4	9.4**	7
Onion Gulch	7E27	8100	5/2	36	10.3	8.2	7.3		2
West Tensleep Lake	7E26	9075	4/27	51	11.7		11.4		1
Tensleep R. S.	7E7	8300	4/27	31	7.4	1.9	3.2	4.5	22

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** Average is for all past data.

d Formerly Muddy Pass.

• Not located directly on this drainage.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS					
			1958			PAST RECORD		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1957	1956
								Record

LOWER YELLOWSTONE - SHELL CREEK

Bald Mountain	7E21	9600	4/22	68	19.9	23.5	24.2	2
Beaver-Tongue Div.	7E20	9200	4/21	63	17.0	19.3	23.6	2
Bone-Spring Div.	7E18	9200	5/3	64	20.3	19.8	20.8	2
Granite Cr. Camp	7E22	7800	4/25	10	1.5	0.0	0.0	2
Granite Pass	7E17	8950	5/3	64	20.3	19.9	21.2	2
Ranger Creek	7E4	8800	4/25	37	8.2	9.2	8.2	6.4* 21
Shell Creek	7E23	9600	4/25	63	15.2	15.6	17.9	2

LOWER YELLOWSTONE - PORCUPINE CREEK

Five Springs Falls	7E31	7500	4/30	26	7.2	5.6	4.6	2
Medicine Wheel	7E30	9000	4/21	49	14.8	16.3	15.5	2

LOWER YELLOWSTONE - TONGUE RIVER

Beaver-Tongue Div.	7E20	9200	4/21	63	17.0	19.3	23.6	2
Big Goose #2	7E32	7700	4/29	55	12.3	11.3	9.9	3
Bone-Spring Div.	7E18	9200	5/3	64	20.3	19.8	20.8	2
Burgess R.S. #2	7E33	7900	4/22	35	6.2	8.4	8.7	3
Dome Lake #2	7E34	8800	4/29	60	13.5	13.7	14.2	2
Gloom Creek	7E14	9300	4/24	88	16.9	16.0	17.3	2
Granite Pass	7E17	8950	5/3	64	20.3	19.9	21.2	2
Sibley Lake	7E11	8000	4/25	59	12.6	10.9	10.4	2
Sucker Creek	7E12	9000	4/24	76	14.9	15.3	13.8	2
Steamboat Point	7E10	7500	5/3	47	12.5	11.0	9.8	2
Wood Rock G.S.	7E13	8500	4/25	57	10.7	15.2	13.7	2

LOWER YELLOWSTONE - POWDER RIVER

Muddy Creek G.S.	7E28	7800	5/1	20	5.7	3.6	5.1	2
Munkres Pass ^d	7E8	9700	5/2	42	12.2	11.4	12.4	9.4** 7
Onion Gulch	7E27	8100	5/2	36	10.3	8.2	7.3	2
Soldier Park	7E5	8700	5/1	38	10.8	6.6	11.0	5.2** 7
Sour Dough	7E6	8500	5/1	38	10.5	10.4	10.8	5.4* 18

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** Average is for all past data.

d Formerly Muddy Pass.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS							
			1958			PAST RECORD			Pri. Yrs..	Reco.
			Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1957	1956	Average	
<u>NORTH PLATTE - SWEETWATER</u>										
Grannier Meadows	8G4	9000	5/1	40	11.0	19.2	15.7	14.0	21	
Larsen Creek	9G6	9000	4/23	35	9.1	15.3	10.6	8.1**	8	
South Pass	8G3	9000	5/1	40	11.4	19.0	19.1	14.6*	18	
<u>NORTH PLATTE - LARAMIE RIVER</u>										
Albany	6H11	9400	4/24	45	14.1	17.0	12.0	11.3**	9	
Brooklyn Lake #1	6H1	10200	4/23	75	26.0	33.4	27.8	23.6	22	
Brooklyn Lake #2	6H13	10200	4/23	72	25.2	32.8	26.4		2	
Cameron Pass ^c	5J1	10300	5/4	83	32.9	36.1	38.9	24.3	22	
Chambers Lake ^c	5J2	9000	5/4	25	11.0	13.9	9.0	4.4	22	
Deadman Hill ^c	5J6	10200	5/1	62	18.4	25.0	24.2	17.6*	19	
Hairpin Turn #2	6H2	9500	4/23	39	11.7	16.2	13.1	11.4	22	
Libby Lodge #2	6H3	8700	4/23	32	9.8	13.2	6.3	6.8	22	
McIntyre ^c	5J15	9100	4/30	39	12.2	16.3	12.6	11.0**	8	
Pole Mountain #2	5H1	8700	4/24	13	2.9	6.8	0.0	2.5*	16	
Roach ^c	6J8	9800	4/25	65	20.5	29.5	25.8	21.1*	17	
<u>NORTH PLATTE - CROW CREEK</u>										
Pole Mountain #2	5H1	8700	4/24	13	2.9	6.8	0.0	2.5*	16	
<u>NORTH PLATTE - ABOVE SEMINOE RESERVOIR</u>										
Albany	6H11	9400	4/24	45	14.1	17.0	12.0	11.3**	9	
Bottle Creek	6H8	8200	4/30	35	11.9	18.6	11.0	9.2*	21	
Boxelder	5G1	9000	5/1	18	4.4	5.5	1.4	5.1**	8	
Cameron Pass ^c	5J1	10300	5/4	83	32.9	36.1	38.9	24.3	22	
Casper Mountain	6G1	8700	5/2	62	19.1	12.7	9.8		3	
Columbine ^c	6J3	9300	4/29	68	28.3	29.2	23.2	20.6	22	
LaBonte	5G2	8450	4/27	Trace	0.5	0.0	0.0	0.0**	7	
North Barrett Cr.	6H5	9400	4/29	77	27.8	26.2	19.3	22.2	22	
North French Cr. #1	6H4	10200	4/29	107	42.9	42.8	33.0	32.7	20	
Northgate ^c	6J7	8500	5/2	8	3.6	8.0	2.1	2.8**	8	
Old Battle	6H10	9800	4/30	92	35.5	43.3	33.8	34.0	22	
Park View ^c	6J2	9200	4/28	25	7.2	10.6	6.4	7.9	22	
Ryan Park	6H6	8400	4/29	38	13.5	13.8	4.2	7.9	22	
Webber Spring	6H9	9000	4/30	47	17.3	21.6	15.4	16.4	22	
Willow Cr. Pass ^c	6J5	9500	4/28	40	11.8	17.5	14.2	13.5	20	

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** Average is for all past data.

^c Colorado snow courses.

WYOMING SNOW SURVEY - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS							
			1958			PAST RECORD				
			Date of Survey (In.)	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1957	1956	Average	Prior Yrs. of Record

NORTH LARAMIE MOUNTAINS

Boxelder	5G1	9000	5/1	18	4.4	5.5	1.4	5.1**	8
Casper Mountain	6G1	8700	5/2	62	19.1	12.7	9.8		3
LaBonte	5G2	8450	4/27	Trace		0.5	0.0	0.0**	7

UPPER COLORADO - GREEN RIVER

Big Park	10G11	8700	5/4	53	21.7	25.1	23.3	22.0**	6
Dutch Joe R.S.	9G5	8700	4/24	23	6.0	11.7	4.9	4.4*	19
East Rim Divide	10F17	7950	5/1	28	9.8	11.3	12.1	10.8**	12
Green River Lakes	9F16	8100	5/5	Trace		6.4	6.4		2
Gros Ventre Summit	10F19	8750	5/6	22	7.2	13.2	17.0		2
Kelly R. S.	10G12	8200	5/4	42	16.4	20.3	18.0		2
Kendall R. S.	10F15	7900	5/5	16	5.4	12.2	11.8	6.3*	19
Loomis Park	10F16	8500	5/7	24	11.0	18.1	20.2	11.8*	19
Mulligan Park	9G1	8900	4/30	25	9.5	11.0	8.4	6.5	22
Old Battle	6H10	9800	4/30	92	35.5	43.3	33.8	34.0	22
Piney-LaBarge	10G10	8820	5/6	40	17.5	25.6	18.6	13.2*	21
Poison Meadows	10G6	8500	5/5	75	31.7	36.8	40.0		2
Snyder Basin R.S. #2	10G13	8040	5/6	29	12.7	18.8	12.6		3
Soda Lake	10G14	8300	5/7	35	15.5	21.9	20.7		3
Triple Peaks	10G15	8500	5/7	56	26.6	33.0	35.7		2

SNAKE RIVER - ABOVE JACKSON LAKE

Glade Creek	10E13	7200	5/1	56	21.8	32.1			1
Grassy Lake	10E15	7265	5/1	76	32.6	41.9	42.0	31.5**	9
Lewis Lake Div.	10E9	7900	5/1	92	38.5	50.6	63.9		2

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‡ Not located directly on this drainage.

WYOMING SNOW SURVEYS - ABOUT MAY 1, 1958

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS						
			1958			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1957	1956	Average
<u>JACKSON LAKE TO PALISADES</u>									

Afton R. S.	10G4	6200	5/1	0	0.0	0.0	0.0	0.0**	9
Bryan Flat	10F14	6250	5/1	14	6.0	0.0	0.0	2.0**	12
CCC Camp	10G7	7500	4/30	26	10.4	13.3	Trace	5.5**	8
East Rim Divide	10F17	7950	5/1	28	9.8	11.3	12.1	10.8**	12
Greys Boundary	10F18	5800	4/30	10	4.6	0.0	0.0	0.8**	13
Gros Ventre Summit	10F19	8750	5/6	22	7.2	13.2	17.0		2
Grover Park Divide	10G3	7500	5/1	31	13.1	11.1	Trace	5.2**	7
Loomis Park ^u	10F16	8500	5/7	24	11.0	18.1	20.2	11.8*	19
Poison Meadows	10G6	8500	5/5	75	31.7	36.8	40.0		2
Salt River Summit	10G8	7900	4/30	38	15.4	17.7	6.9		5
Snow King Mtn. #1	10F11	7600	5/2	35	10.9	10.8	15.1	10.8**	7
Snow King Mtn. #2	10F12	7200	5/2	28	9.1	9.0	8.6		4
Teton Pass #2	10F13	8500	4/30	103	40.4	40.1	53.9	41.5**	9
Togwotee Pass	10F9	9600	5/1	73	29.4	32.7	47.4	34.8**	9

BEAR RIVER

Big Park	10G11	8700	5/4	53	21.7	25.1	23.3	22.0**	6
CCC Camp	10G7	7500	4/30	26	10.4	13.3	Trace	5.5**	8
Goodman Ranchu	10J6	7900	4/28	Trace	4.6	0.0			3
Hayden Fork ^u	10J7	9300	4/28	41	17.3	21.8	17.0		4
Kelly R. S.	10G12	8200	5/4	42	16.4	20.3	18.0		2
Monte Cristo R.S. ^u	11H12	8960	5/2	66	30.6	31.4	24.5	26.1**	7
Poison Meadows	10G6	8500	5/5	75	31.7	36.8	40.0		2
Salt River Summit	10G8	7900	4/30	38	15.4	17.7	6.9		5
Still Water Camp ^u	10J17	8550	4/28	23	9.6	13.0	4.0		3
Trial Lake ^u [‡]	10J8	9800	4/28	74	30.2	34.3	37.5	30.3**	10

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‡ Not located directly on this drainage.

u Utah snow courses.

STATUS OF WYOMING, SOUTH DAKOTA & NEBRASKA RESERVOIR STORAGE - MAY 1, 1958

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1958	1957	1956	15-Yr. Avg. 1938-52
Snake River	Jackson ^W	847.0	459.2	185.3	258.5	502.7
Snake River	Palisades ^W	1202.0	861.3			
North Platte	Seminole ^W	981.8	548.9	212.8	228.7	387.6*
North Platte	Pathfinder ^W	1011.0	721.3	408.2	544.4	508.4*
North Platte	Alcova ** ^W	190.5	186.8	187.7	187.6	132.2
North Platte	Guernsey ^W	39.8	31.3	18.9	10.1	35.9
North Platte	Southerland ⁿ	185.0	45.5	70.0	52.8	47.7
North Platte	Kingsley ⁿ	1995.0	1164.0	718.0	923.4	1219.5*
North Platte	Minatare ⁿ	60.8	46.4	17.1	32.3	41.0
Kansas Basin	Bonny ^c	39.9		39.5	40.5	17.1*
Kansas Basin	Swanson Lake ⁿ	116.1		100.6	67.2	
Kansas Basin	Enders ⁿ	36.0		35.6	43.4	19.9*
Kansas Basin	Harry Strunk ⁿ	33.9		31.0	32.8	27.4*
Kansas Basin	Harlan County ⁿ	252.9		78.7	196.8	
Kansas Basin	Cedar Bluff ^k	176.8		115.3	125.4	72.0*
Laramie River	Wheatland ^W	95.0	90.0		6.0	44.1
Belle Fourche	Belle Fourche ^{sd}	185.2	98.9	62.5	119.0	132.4*
Belle Fourche	Keyhole ^W	190.3	11.6	3.2	15.9	0.5*
Shoshone River	Buffalo Bill*** ^W	380.3	106.2	97.6	130.4	266.6
Wind River	Boysen ^W	560.0	197.6	202.5	0.0	
Wind River	Pilot Butte ^W	31.6	27.7	27.7	27.3	20.9*
Wind River	Bull Lake ^W	152.0	56.6	60.1	51.9	48.6*
Cheyenne River	Angostura ^{sd}	92.0	68.6	39.8	74.4	33.6*
Cheyenne River	Deerfield ^{sd}	15.1	12.1	9.2	11.3	14.2*
Grand River	Shadehill ^{sd}	84.0	82.0	77.9	82.7	
Green River	Big Sandy ^W	38.3	35.4	13.0	12.2	

* Average is for less than 15 years of record in the 1938-52 period.

** Alcova, downstream from Seminole and Pathfinder and containing 160,170 acre feet of active storage that is unavailable to Kendrick Project.

*** Usable capacity 439,800, however 59,500 acre feet are inactive except in emergency.

w Wyoming

n Nebraska

c Colorado

sd South Dakota

k Kansas

The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

U.S. Department of Agriculture
Forest Service

U.S. Department of Commerce
Weather Bureau

U.S. Department of the Interior
Bureau of Reclamation
National Park Service
Geological Survey

PRIVATE

Wheatland Irrigation District

Federal - State - Private
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"